OWNER'S MANUAL

JAS Bravo 1.1 LE

High End Vacuum Tube Pre-Amplifier

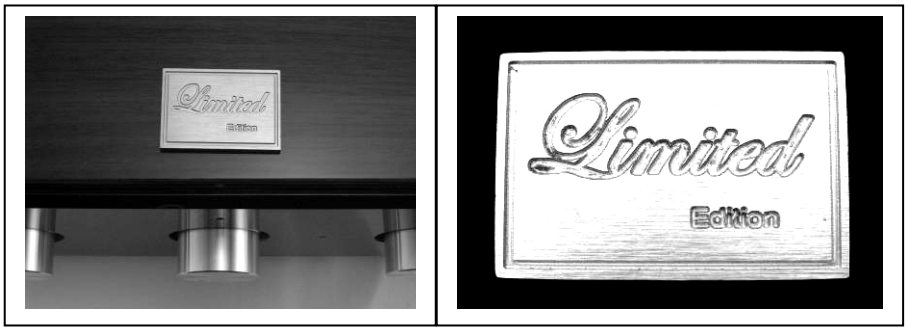
Limited Edition

NOTE: Before installing your new Bravo 1.1 LE audio pre-amplifier, please read this manual carefully. It will inform you of the product specifications and also proper installation and operation procedures.

For additional requests

If you have any additional questions regarding the installation or operation of our products, you are welcome to contact us directly via email: " enquiry@jas-audio.com ", and please check frequently our JAS Audio official website: " http://www.jas-audio.com ".

JAS AUDIO HIGH End Vacuum Tube Pre-Amplifier

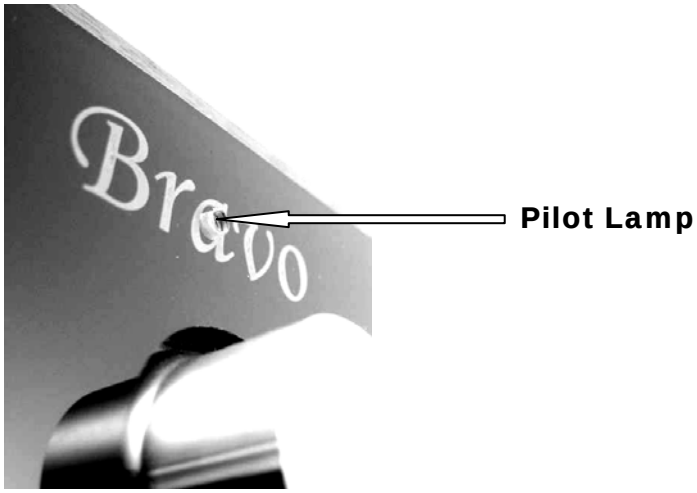


BRAVO 1.1 LE

Welcome to JAS Audio Family! This JAS Bravo 1.1 LE vacuum tube pre-amplifier is designed and manufactured to the highest quality standards in design and craftsmanship. Separate matching cabinets of piano finish on Rosewood veneer with black acrylic sheets for both face and back plates in rectangular shapes help create a visually pleasing classic appearance. This exquisite design is also a representation of simplicity, performance and elegance.

IMPORTANT: before operating the unit, make sure you are familiar with the safety measures documented below.

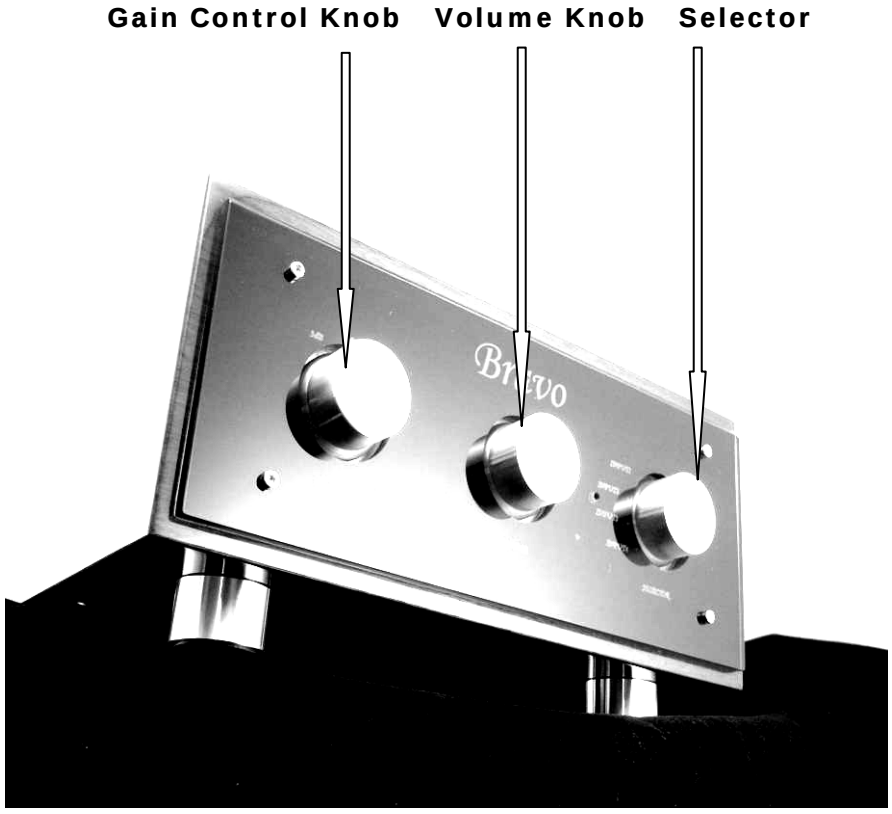
***The model shown in the picture is subjected to change without prior notice.**



Bravo 1.1 LE OWNER'S MANUAL

Introduction

Thank you for purchasing the JAS Audio Bravo 1.1 LE Vacuum Tube Pre-amplifier. Exquisiteness of this rep-amplifier is accomplished by utilizing two boxes made of MDF for accommodating the circuit and the power supply separately. Having installed with two sets of chokes for regulating passage of high and low frequency signal flow, this amplifier is successful in delivering smooth and vivid sound over the entire frequency range in signal amplification. Moreover, a balance between definition and tonal expression can be achieved. Two pieces each of 12AX7 tubes and 12AT7 tubes are fixed on the vibration damping acrylic boards next to the main circuit board. Current rectification is done by the 5Z4P tube inside the power supply box. Both cabinets are made of MDF laminated with piano finish on Rosewood veneer. Materials used are ideal for eliminating vibration and blocking of electro-magnetic interference to the circuit.

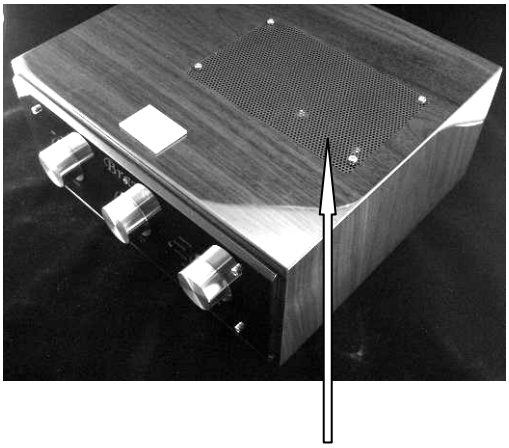


Preliminary

The circuit board together with components such as vacuum tubes and the power

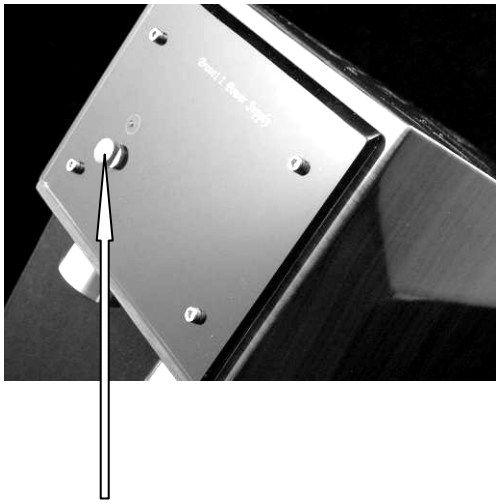
supply are housed separately in two wooden boxes. They should be linked together by a power connecting cable before putting into operating condition. Please ensure that the connecting cable is properly and securely connected between the main circuit box and the power supply. A remote control is supplied for power on-off and volume control.

Circuit Box



Tubes under the removable grille

Power Supply



Power switch

W A R N I N G

It is important to be careful with tube installation. Please do not force anything, easy does it! This precaution is mentioned to help you obtain pleasing results and avoid damage! If you have any trouble replacing or changing tubes, please don't hesitate to call your dealer!

Tube Replacement

Caution: Make sure the amplifier has been unplugged for 30 minutes from the AC mains before replacing the tubes. This is to avoid any risk of shock or discomfort from high temperature. Although tube life span varies depending on the nature and degree of use, under normal home use, the 12AX7 and the 12AT7 tubes should last years in the Bravo 1.1 LE

Cautionary Terms

When the following cautionary terms are used in this manual, these definitions apply:

Electrical hazard! Misuse or failure to follow instructions properly may result in personal injury or death!

CAUTION: No risk of personal injury; however, misuse or failure to follow instructions may result in damage to equipment.

NOTE: No risk of personal injury or equipment damage; however, misuse or failure to follow instructions may prevent proper performance.

NOS types of 12AX7, 12AT7, and 5Z4P tubes will work fine in the JAS Bravo 1.1 LE Pre-amplifier. The amplifier voltage settings will also work fine with all compatible types.

NOTE: LOOK CAREFULLY at the tube pins and socket and make sure that you insert the pins correctly. In most cases, replacing tubes presents no problem. The tube can be made to release by pulling it out gently (sometimes with a little back and forth wiggling). Nevertheless, it is possible to force the tube pins into the socket the wrong way! If you install the tube wrongly you will probably damage the amplifier and the tube. This kind of damage will not be covered by the manufacturer's warranty. If you have any doubts at all about this, please call your local dealer for help.

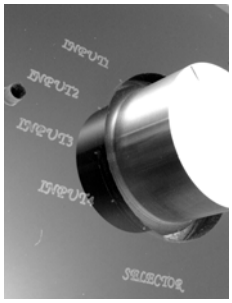
Unpacking before installation

All shipping containers have been specially designed to protect their contents and special care has been taken to prevent damage under normal shipping conditions. Mishandling should be evident upon inspection of the shipping container. If shipping damage is found after visual inspection, take care not to destroy the evidence. If necessary, document the damage with photographs and contact the carrier immediately.

Caution: On reception, carefully remove your new Bravo 1.1 LE and the power supply from the packing carton and examine them closely for signs of shipping damage. It is recommended to save all original packing cartons and crates to protect your amplifier from damage should you wish to store it or ship it for after-sales service.

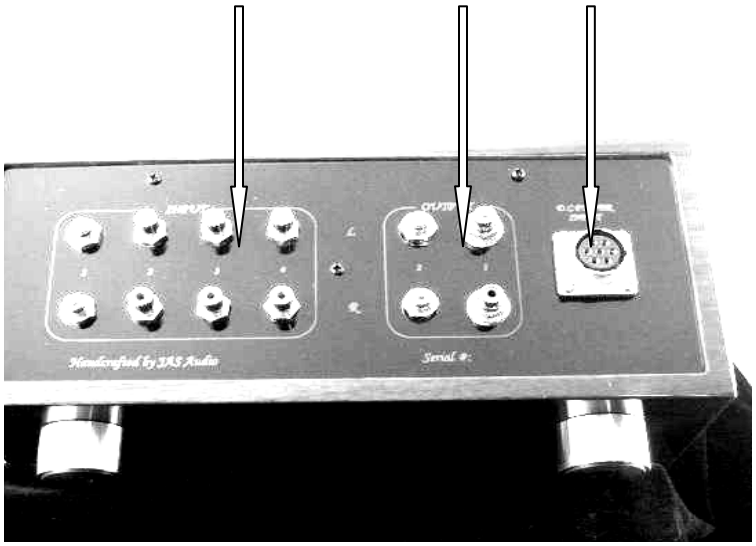
Installation and Set up

Four sets of RCA female input plugs for reception of signals from sources and two sets of RCA female plugs for signal output to power amplifier are provided at rear of the chassis. Connect the signal cables according to the indications and configuration. Attach one end of the power connecting cable to the main box by twisting the ring on the male plug to lock until secured. Please make sure all signal cables, power connecting cable and the power supply cable are properly connected. Set the Gain Control Knob at 0dB or 3dB according to personal preference before pressing the power button on the power supply box. Signal input is selectable by turning the Selector on the front acrylic panel.



Selector to choose source of input

Signal in **Signal out** **Power in**

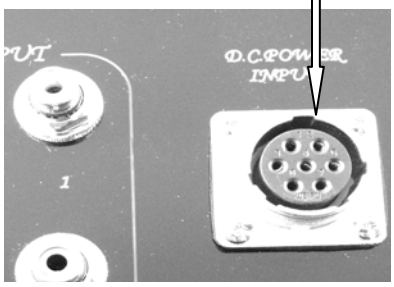


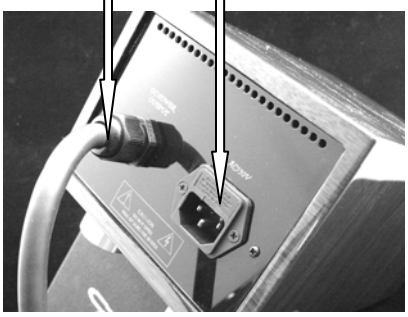
Power Requirements: The Bravo 1.1 LE is designed to operate from the AC mains (house current) and is pre-set in the factory according to local supply of the import region. A standard IEC AC power socket with a built-in fuse is provided on the back chassis panel.

Power connecting cable

Power in

IEC power socket





Caution: There is a power on-off button located on the front panel of power supply. Bravo 1.1 LE is in operating condition when the rectifier and the signal amplification

tubes light up after pressing the power switch at ON position while the Gain Control Knob on the main box is at 0dB or 3dB.

Power ON Operation

Your new pre-amplifier is ready for operation when the tubes are properly installed, and the input interconnect cables from the source and those for connecting the power amplifier are properly connected.

We recommend high quality silver cables for interconnects and high purity copper conductor cables for power connection. Please ask your local dealer for additional information.

Features

- Vacuum Tube Pre-amplifier for high quality and definition in sonic performance
- Selected and matched pairs of 12AX7 and 12AT7 tubes
- Separate wide-band audio power transformers
- 2 sets of chokes for regulating passage of high and low frequency signal flow
- Designed with a separate power supply for eliminating electro-magnetic interference, and the transformer is mechanically shock-mounted in the box
- Additional internal damping material for added control of mechanical resonance
- 4 sets of RCA female plugs for signal input and 2 sets of RCA female plugs for signal output
- Factory pre-set on Voltage Operations with fuse protects amplifier circuit in case of current overload
- Bravo Tube Pre-amplifiers are handcrafted to meet high quality standards

Running-In Period

The tubes, capacitors and the transformers take approximately 100 hours of music playing to fully settle in for peak performance. **Small imperfections in the tube surfaces will 'boil off' during the break in period as well.** The amplifier will sound good right out of the box but it will improve as break-in occurs. After the first couple of hours you will notice increased depth and tighter bass. This break-in phenomenon is true of most high performance audio amplifiers.

Aftercare

The piano lacquer finish chassis of both the main box and the power supply may only be cleaned with high quality soft cloth similar to that for lens cleaning. Before attempting to clean the surface, make sure that there isn't any dust or particles left on the surface. Blow before wiping is always recommended. The frequency of cleaning will be governed by the cleanliness of the operating environmental. Spray cleaner on the towel, not on the amplifier! Avoid abrasive cleaners! Feather dusters are good for cleaning the amplifier.

Limited Warranty

This product has been designed and manufactured to the highest quality and standards. However, if something does go wrong with this product, JAS Audio and its national distributors warrant, free of charge, labor (exclusion may apply) and replacement parts in any country served by an official JAS Audio distributor.

Terms and conditions of this limited warranty may vary from region to region, and are in accordance with respective distributor of the region where the amplifier is purchased.

Terms and Conditions

1. The warranty is limited to the repair of the equipment. Neither transportation, nor any other costs, nor any risk involved in removal, transportation and installation of products is covered by this warranty.
2. This warranty will not be applicable other than in case of defects in materials and/ or workmanship at the time of purchase and will not be applicable:
   a. for damages caused by incorrect installation, connection or packing,
   b. for damages caused by any use than described in the user manual, or by negligence, or by modifications, or by use of parts that are not made or authorized by JAS Audio,
   c. for damages caused by faulty or unsuitable auxiliary equipments,
   d. for damages caused by accident, lighting, water, fire heat, war, public disturbances or any other cause beyond the reasonable control of JAS Audio and its appointed distributors,
   e. for products whose serial number has been altered, deleted, removed or made illegible,
   f. if repairs or modifications have been performed by an unauthorized person.
3. This guarantee complements any national/regional law obligations of dealers or national distributors and does not affect your statutory rights as a customer.

How to claim repairs under warranty

Should service be required, please follow the following procedure:

1. If the equipment is being used in the country of purchase, you should contact the JAS Audio Authorized dealer from whom the equipment

was purchased.

2. If the equipment is being used outside the country of purchase, you should contact JAS Audio National distributor in the country of residence who will advise where the equipment can be serviced.

To validate your warranty, you will need the original sales invoice or other proof of ownership and date of purchase.

Technical Specifications

Product Model:	JAS Bravo 1.1 LE
Description:	Vacuum Tube Pre-amplifier
Power Requirement:	AC 110/117, 220/240 @ 50-60Hz set for local supply
Max Output:	50V
Input Impedance:	47KΩ
Frequency Response:	10Hz --- 40KHz (- 1dB)
Total Harmonic Distortion:	≤ 0.035% (out 2V)
S/N ratio:	91dB
Tube complement:	12AX7 X 2, 12AT7 X 2, 5Z4P x 1
Static Power Consumption:	≤ 50W
Dimensions of Amplifier Chassis:	280mm (W) X 280mm (D) X 140mm (H)
Dimensions of Power Supply:	150mm (W) X 260mm (D) X 140mm (H)
Packing Box Sizes:	480mm (W) X 380mm (D) X 450mm (H)
Net Weight:	14 kg
Gross/Shipping Weight:	15.5 kg

***Please allow at least 10 minutes of warm up time to its optimal performance.**

JAS AUDIO is constantly striving new design improvements, we reserve the right to change or modify product specifications without prior notice

Note: All Bravo 1.1 LE amplifiers have their own serial number (S/N xxxxx) marked on the back of chassis and is also printed on the exterior of the packing box.

Happy Listening to all music lovers!

Best Regards,

Set your mind free!

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